

CLAIMS AMENDMENTS

1. – 20. (cancelled).

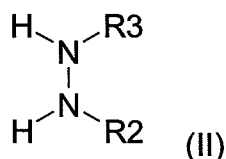
21. (currently amended) Process to produce hydrazides ~~and their derivatives,~~
~~characterized in that~~ comprising the reaction of a dicarboxylic acid having general
formula (I):



wherein **R1** can be hydrogen, alkyl, alkenyl, ~~alkynyl~~ alkynyl, phenyl, aromatic
heterocyclic ring containing as heteroatom S, O and/or N, heterocyclic non-aromatic
ring containing as heteroatom S, O and/or N, cycloalkyl containing from 3 to 8 carbon
atoms, cycloalkenyl containing from 3 to 8 carbon atoms, ~~cycloalkynyl~~ cycloalkynyl
containing from ~~3~~ 7 to 8 carbon atoms; all the described groups can be further
substituted and/or branched;

~~n varies from~~ is 1 to or 2;

with a hydrazine of general formula (II)

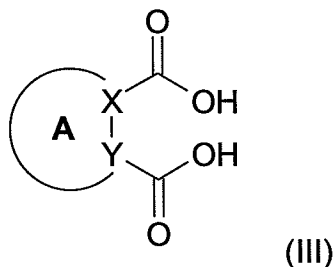


wherein **R2** and **R3** are, independently, hydrogen, alkyl, alkenyl, ~~alkynyl~~ alkynyl, phenyl,
heterocyclic aromatics containing as heteroatom S, O and/or N, heterocyclic non-
aromatics containing as heteroatom S, O and/or N, cycloalkyl containing from 3 to 8
carbon atoms, cycloalkenyl containing from 3 to 8 carbon atoms, ~~cycloalkynyl~~
cycloalkynyl containing from ~~3~~ 7 to 8 carbon atoms;

wherein the hydrazine is soluble in water on in the reaction solvent;

in the presence of a Lewis acid.

22. (currently amended) Process to produce hydrazides and their derivatives, characterized in that comprising the reaction of a dicarboxylic acid having general formula (III):

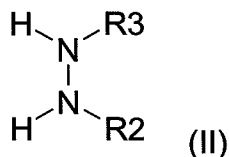


wherein **A** can be an aromatic heterocyclic ring containing from 4 to 8 atoms, ~~a non-aromatic ring containing from 4 to 8 atoms, an aromatic heterocyclic ring containing from 4 to 8 atoms,~~ wherein the heteroatom is S, O and/or N, a non-aromatic heterocyclic ring containing from 4 to 8 atoms, wherein the heteroatom is S, O and/or N; all the described groups can be further substituted and/or branched; ring **A** can further have 1 or more fused ring, wherein the ring is aromatic, non-aromatic, aromatic heterocyclic, non-aromatic heterocyclic rings and mixtures thereof, ~~coupled,~~ wherein the heteroatom can be N, O, and/or S;

X can be is C or N;

Y can be is C or N;

with a hydrazine of a general formula (II)



wherein **R2** and **R3** are, independently, hydrogen, alkyl, alkenyl, ~~alkinyl~~ alkynyl, phenyl, heterocyclic aromatics containing as heteroatom S, O and/or N, heterocyclic non-aromatics containing as heteroatom S, O and/or N, cycloalkyl containing from 3 to 8 carbon atoms, cycloalkenyl containing from 3 to 8 carbon atoms, ~~cycloalkinyl~~ cycloalkynyl containing from 3 7 to 8 carbon atoms; wherein the hydrazine is soluble in water or in the reaction solvent; in the presence of a Lewis acid.

23. (currently amended) Process, ~~in accordance~~ according to claim 21, characterized ~~in that~~ wherein the Lewis acid is a halide donator.

24. (currently amended) Process, ~~in accordance~~ according to claim 23, wherein the Lewis acid is ~~an~~ a halide donator chosen from the group consisting of aluminum chloride, antimony trichloride, antimony pentachloride, arsenic trichloride, arsenic pentachloride, beryllium chloride, bismuth trichloride, boron trifluoride, boron trichloride, cadmium chloride, copper chloride (I), copper chloride (II), cobalt chloride, chromium trichloride, gallium chloride, iron chloride (III), mercury chloride (II), magnesium chloride, magnesium bromide, nickel chloride, niobium pentachloride, titanium dichloride, titanium trichloride, titanium tetrachloride, tellurium tetrachloride, uranium tetrachloride, zirconium tetrachloride, ~~zinc chloride~~ and ~~mixture~~ mixtures of them.

25. (currently amended) Process, ~~in accordance~~ according to claim 24, characterized ~~in that~~ wherein the halide donator Lewis acid is niobium pentachloride.

26. (currently amended) Process, ~~in accordance~~ according to claim 21, characterized ~~in that~~ wherein the dicarboxylic acid is suspended in an organic solvent.

27. (currently amended) Process, ~~in accordance~~ according to claim 26, characterized ~~in that~~ wherein the organic solvent is an aprotic polar organic solvent.

28. (currently amended) Process, ~~in accordance~~ according to claim 27, characterized ~~in that~~ wherein the solvent is chosen from the group consisting of dioxane, acetone, methylpyrrolidone, dimethylsulfoxide, N,N-dimethylformamide, and ~~mixture~~ mixtures of them.

29. (cancelled).

30. (currently amended) Process,~~in accordance~~ according to claim 29 21, characterized by ~~further comprising~~ the reaction of 1-nitro-phthalic acid with the hydrazine in the presence of niobium pentachloride.
31. (currently amended) Process,~~in accordance~~ according to claim 30, characterized ~~in that~~ wherein the Lewis acid is a halide donator.
32. (currently amended) Process,~~in accordance~~ according to claim 31, wherein the Lewis acid is ~~an~~ a halide donator chosen from the group consisting of aluminum chloride, antimony trichloride, antimony pentachloride, arsenic trichloride, arsenic pentachloride, beryllium chloride, bismuth trichloride, boron trifluoride, boron trichloride, cadmium chloride, copper chloride (I), copper chloride (II), cobalt chloride, chromium trichloride, gallium chloride, iron chloride (III), mercury chloride (II), magnesium chloride, magnesium bromide, nickel chloride, niobium pentachloride, titanium dichloride, titanium trichloride, titanium tetrachloride, tellurium tetrachloride, uranium tetrachloride, zirconium tetrachloride, zinc-chloride and mixture mixtures of them.
33. (currently amended) Process,~~in accordance~~ according to claim 32, characterized ~~in that~~ wherein the halide donator Lewis acid is niobium pentachloride.
34. (currently amended) Process,~~in accordance~~ according to claim 22, characterized ~~in that~~ wherein the dicarboxylic acid is suspended in an organic solvent.
35. (currently amended) Process,~~in accordance~~ according to claim 34, characterized ~~in that~~ wherein the organic solvent is an aprotic polar organic solvent.
36. (currently amended) Process,~~in accordance~~ according to claim 35, characterized ~~in that~~ wherein the solvent is chosen from the group consisting of dioxane, acetone, methylpyrrolidone, dimethylsulfoxide, N,N-dimethylformamide, and mixture mixtures of them.

37. (cancelled).

38. (currently amended) Process, ~~in accordance~~ according to claim 37 22, characterized by further comprising the reaction of 1-nitro-phthalic acid with the hydrazine in the presence of niobium pentachloride.